Equivariant Iwasawa theory

Al Weiss (`aweiss@math.ualberta.ca`)
University of Alberta
Department of Mathematical Sciences
632 Central Academic
Edmonton, Alberta T6G 2H1
Canada

Abstract. There is an 'equivariant' refinement of the 'Main Conjecture of Iwasawa theory' which was proved by Wiles. This refinement was motivated by an attempt to prove Chinburg's root number conjecture and so is formulated in terms of the K-theory of the (completed) group ring. Surprisingly, it can even be proved in some generality.